



U.S. Coast Guard Auxiliary

District 113
Serving Northern California, Nevada, Utah



District Navigation Systems

Covering Aids to Navigation, Bridges, & Chart Updating Activities

Accuracy - Credibility – Professionalism - Service to the Coast Guard & NOAA-NOS

2020-02-113 DSO-NS Report/Bulletin

Date: March 2, 2020
From: D113 DSO-NS
To: DCAPT- P & All D11 Auxiliary Members for Immediate Action
Info: EXCOM, Board & Staff, SO-NS, FSO-NS & Aid Verifiers, D11 (dpw) & D11 (dpa-n)
Subject: DSO-NS February Report/Bulletin Ending March 1st.

SO-NS please contact each FSO-NS to see that they receive a copy of this bulletin.

Additional copies can be downloaded at:

<http://www.uscgaux.info/content.php?unit=113&category=navigation-systems-1>

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1. The Demise of Traditional Raster (RNC) Paper Charts – From BOATUS

SOON YOU WON'T BE ABLE TO BUY THE COLORFUL NOAA PAPER CHARTS: But technology means you can print your own up to date backup paper charts at a fraction of the price.



Photo: Getty Images/Saxifrag

As long as there have been electronic charts, mariners have been advised to keep a set of backup paper charts just in case the electronics fail. Back in the day, a trip to a store that sold genuine NOAA charts was how you got them — browsing through hundreds of colorful charts and then paying (as much as \$20 or more) for each chart you needed.

Those days are gone or will be soon. NOAA recently announced it will no longer be printing nautical charts, phasing out the service over the next five years. NOAA says it currently makes two kinds of charts that serve the same purpose, and it makes sense to discontinue paper charts and move ahead with only the electronic version.

For years, NOAA has maintained more than 1,000 paper nautical charts in raster form. Raster charts are simply pixelated images, or copies of charts, which could be printed through NOAA's certified print-on-demand (POD) chart agents. It's these raster charts — including the Booklet Charts that many recreational boaters use — that are going to be discontinued by January 2025.

NOAA also produces about 1,200 electronic navigation charts (ENCs) in various scales to plan a voyage or pinpoint an anchorage. ENC charts are vector charts, meaning they're made of digital data, which stores much more detailed information and can be more easily scaled. If you've ever zoomed into an electronic vector chart, you've seen more detail as you focused in on one area — raster charts can't do that. NOAA says ENCs will be remade into a standardized, rectangular gridded layout, increasing the number of charts to about 9,000. Many of the older charts will now be at a larger scale, meaning they'll contain much more detail for mariners.

Starting a couple of years ago, users could use a prototype of the online NOAA Custom Chart application (NCC) that let them make their own charts from the latest NOAA ENC data. That system is being improved as the end of paper charts nears. One of the biggest advantages of ENCs is that they are up to date when you make them. In the past, when you bought paper charts that were even a few weeks old, they needed to be updated by hand with current Local Notice to Mariners, which could be a lot of work, depending on how old the charts were.



While the NCC is operational now, NOAA says improvements are needed to make it a viable replacement for traditional paper nautical charts — hence the five-year plan to sunset traditional raster and paper charts. NOAA says that while there is no timeline for the demise of individual paper/raster charts, new ENC charts will be in their place as they are deleted.

So, what does this mean for you? If you're a fan of getting new traditional paper charts for your navigating, you're soon going to be out of luck. However, you'll be able to use NOAA's NCC to print your own small charts, with the ability to customize area and details to suit your needs, at a fraction of the cost of traditional charts. You'll also be able to buy printed ENC charts from vendors if you don't want to print your own. Now when you want to supplement your chartplotter, it's easier and cheaper than ever.

Visit <https://devgis.charttools.noaa.gov/pod> to try your hand at making your own paper charts. Or visit <https://nauticalcharts.noaa.gov/customer-service/assist/> to make comments to NOAA on what you'd like in its NCC application.

2. WORLDWIDE: NOTICE TO ALL MARINERS WHO USE GPS EQUIPMENT:

LNM_Special_Notice_2019_Use_GPS_Equipment_Indefinite (NAVCEN's ELEVENTH DISTRICT LNMS FOR 2020)

On 6-7 April, a parameter in the GPS system will “roll over” to zero, which may affect older GPS equipment, or equipment that has not received firmware or software updates recently.

Background: The GPS satellite constellation transmits the exact time to all GPS receivers. The format for this information includes a parameter that represents the week, called the GPS week number. The week number has been counting incrementally by 1 since January 5th, 1980 and is an integral part of the navigation message received by all GPS receivers. When the week number reaches 1024 at 18 seconds before midnight (UTC) on April 6th, 2019, it will reset to zero as it keeps counting. This has happened once before - in August of 1999.

Older GPS receivers, or receivers that have not been provided manufacturer updates, may be impacted by the rollover. The impact might occur in April or could affect such equipment at a later date. On these receivers the date might revert back to August 1999 or may revert to another date. Since this issue does not affect the other parts of the GPS navigation message, (it only affects the date), the receiver's ability to calculate the position and to display the exact time of day should not be impacted.

If you are operating a relatively recently made piece of GPS equipment, it has likely been designed to handle this rollover event. If you regularly update your equipment's software/firmware with manufacturer updates, it has likely been prepared to handle it. If you are unsure, check with your manufacturer. If the equipment was built to the following published specification, it will handle the rollover without problem: Global Positioning Systems Directorate Systems Engineering and Integration Interface Specification, IS-GPS-200.

If your receiver shows symptoms similar to those describes above, it is recommended that you contact your equipment manufacturer for further assistance.

To best prepare for this rollover event, users of GPS equipment who are concerned should update their firmware or contact their equipment manufacturer to ensure their equipment is ready for this event.

Find additional information about GPS and the GPS Week Number Rollover here:

- Google [GPS.gov](https://www.fishbase.org/)
- Google [Department of Homeland Security Memorandum for U.S. Owners and Operators Using GPS to Obtain UTC Time](#)

Civil GPS users are encouraged to report disruptions or anomalies to the [U.S. Coast Guard Navigation Center](#) or via phone at 703-313-5900, 24 hours a day.

2. 2020 NAVIGATION SYSTEMS AUXINFO REPORT AS OF 1 March:

Check below to see if your activity is in AUXDATA? If Not, Why Not? Did you submit a 7030?

Cube last refreshed on Sunday March 1, 2020									
ATON-Aids to Navigation 30-31-32	District 113	All Facilities	All Unit Locations	All Activities	CY 2020	All Statuses	Lead ONLY	All Operations	
Some of this AUXDATA Information does not match actual reports submitted to DSO-NS & D11 (dpw). SEE BELOW				BRIDGE - Bridge Administration (32)		FEDERAL - ATON/Chart Update (30)		PRIVATE - Private Aids to Navigation (31)	
				ATON Bridge Verified	ATON Bridge Discrepancy	ATON Aids Verified	ATON- Aid Discrepancy Reported	PATON Aids Verified	PATON - Aids Discrepancy Reported
113-01-04 CENTRAL MARIN									
113-01-07 POINT BONITA									
113-01-09 COYOTE POINT	BLANCHARD, TERRY M							2	
113 - DIV 01									
113-03-05 SACRAMENTO	DUNCAN, JAMES B		2	3				2	
113 - DIV 03			2	3				2	
113-05-02 NAPA									
113-05-03 NORTH SOLANO COUNTY									
113-05-05 SONOMA COUNTY									
113-05-07 DIABLO									
113 - DIV 05									
113-06-10 CAPITOLA FLOTILLA	SIMPSON, BRUCE			2					
113 - DIV 06				2					
113-08-08 NEW LAKE COUNTY									
113-08-11 CRESCENT CITY FLOTILLA									
113 - DIV 08									
113-10-06 KAWEAH									
113 - DIV 10									
113-11-01 NORTH LAKE TAHOE									
113-11-03 RENO									
113-11-04 SOUTH LAKE TAHOE									
113 - DIV 11									
113-12-01 EAST BAY									
113-12-91 SAN RAMON VALLEY									
113 - DIV 12									
113 RAW UNCORRECTED AUXDATA INFORMATION				2	5	0	0	0	4
PROBABLE AUXDATA INPUT ERRORS MADE or NOT AV-PQS				0	0	0	0	0	0
113 ESTIMATED CORRECTED AUXDATA INFORMATION				2	5	0	0	0	4
DSO-NS Note: Only CG Unit Requested Verification of an ATON may be ↑ entered in this column!									

Question: Have you submitted your Navigation Systems 7030 reports and your name is not on the table above? Is the data above incorrect? If so, then you have not submitted a 7030 or all of your 7030's for your Navigation Systems activity to be entered by your FSO-IS. If you have submitted all your 7030's for your Navigation Systems activities, then check with your FSO-IS Officer for the answer. Again, the FSO-IS, SO-IS & DSO-IS is the only members that can enter your Navigation Systems activity into AUXDATA.

NOTE: All Navigation Systems activity awards for this year and AV certifications for next year is taken from AUXDATA information. Remember the old saying "If it's not in AUXDATA it didn't happen." That is why you should always check the table above each month. So, this way you can see that if you have not reported your NS activity (7030) to your FSO-IS or they have not entered your NS activity incorrectly you have time for them to correct your information into AUXDATA. The FSO-IS or SO-IS is the only member that can enter and correct your Navigation Systems activity into AUXDATA and only you can let the FSO-IS or SO-IS if the data information is incorrect.

3. 2020 NAVIGATION SYSTEMS ACTIVITY REPORT:

This summary report activity table covers all ATON, PATON, Bridge, & Chart Updating activities & reports received by D11 (dpw), NOAA-OFFICE OF COAST SURVEY & AUXINFO through **March 1, 2020**.

2020 DIVISIONAL, BRIDGE, ATON, & CHART UPDATING ACTIVITY SUMMARY REPORT

Div.	AIDS TO NAVIGATION ACTIVITY							Bridges Assigned				PATON's Assigned				2019 AVPQ In Training	A V - P Q S
	Bridge	Bridge AUX Data <small>Lead only</small>	ATON	ATON AUX DATA <small>Lead only</small>	PATON	PATON NO Permit	PATON AUX DATA <small>Lead only</small>	AOR	Check	% Done	Still to Do	AOR	Check	% Done	Still to Do		
1					4		2	4		0%	100%	104	4	0%	100%	0	7
3	5	5			2		2	15	5	33%	100%	34	2	6%	100%	0	4
4								2		0%	100%	67		0%	100%	0	2
5								11		0%	100%	103		0%	100%	1	7
6		2						2		0%	100%	67		0%	100%	0	3
8								1		0%	100%	5		0%	100%	1	1
10								9		0%	100%	54		0%	100%	1	5
11								0		0%	100%	144		0%	100%	1	8
12								8		0%	100%	181		0%	100%	3	9
Total	5	7			6		4	52		10%	100%	759		0%	100%	6	43

Total Aids to Navigation Reports	11	Total Members Submitting ATON & CU Reports in 2020 →	3
Total Navigation Systems in AUXDATA*	7	7 out of 7 ATON & CU reports showing up in AUXDATA →	100%
Total Chart Updating Reports	0	B= Bridges, A= ATON, P= PATON, U= Unauthorized & CU=Chart Updates/CP-Coast Pilot.	
Total ATON & Chart Updating	11	CUC = Chart Update Credits, (113 Stop Gap) = 26 CUP awarded by D113 DSO-NS for each confirmation of a Report you recently submitted via NOAA -Office of Coast Survey ASSIST Report System.	

Note: *Red numbers above is the information from AUXINFO as of **MARCH 1, 2020** update

CHART & COAST PILOT UPDATE SUBMISSION THROUGH "NOAA -OFFICE OF COAST SURVEY ASSIST REPORT SYSTEM" SECTION BELOW

Div.	2019 D11NR Chart Updating Year Jan 1, 2019 to Dec 31, 2019				2020 D11NR Chart Updating Year Jan 1, 2020 to Dec 31, 2020		
	CU Reports	2nd Ob	CUC (26)		CU Reports	2nd Ob	CUC (26)
1							
3	1-4	2	182				
4							
5		1	26				
6							
8							
10							
11							
12							
Total	1-4=5	3	208				

➤ Total D11 CU Reports & Credits 1/1/2020 through 12/31/2020 **0** **0**

➤ See **2020** NAVIGATION SYSTEMS INDIVIDUAL ACTIVITY AUXINFO REPORT Page 1

➤ **D11NR Chart Updating Year is from - January 1 through December 31 each year.**

➤ Note: The **Purple** number under "2nd Ob" indicates secondary Chart Updating Observers.

✓ Note: "ALWAYS submit a 7030 for all ATON, PATON, Bridge, & Chart Updating Activity. Your work is not completed until your 7030 is in your FSO-IS hands."

✓ "Always check AUXINFO for your ATON, Bridge, & Chart Updating activity. If you don't find your activity recorded and you have submitted the proper ANSC 7030, check with your FSO-IS or SO-IS for help." If you are not satisfied always contact the DSO-NS for help.

3. DATES OF CHART LATEST EDITION TABLE

Charts Used in District 113, MARCH 2, 2020

Chart No.	Chart Scale	Edition No.	Traditional Paper Chart Edition Date	Last Correction Date from LNM Update for NOAA On-Line-Viewer & RNC & ENC Navigational Charts	
18600	196,948	15	Mar 2011	LNM 07/20	2/18/2020
18602	40,000	13	Feb 2012	LNM 07/20	2/18/2020
18603	40,000	17	Mar 2012	LNM 07/20	2/18/2020
18605	15,000	13	Dec 2010	LNM 07/20	2/18/2020
18620	200,000	24	Feb 2012	LNM 07/20	2/18/2020
18622	25,000	56	APR 2016	LNM 07/20	2/18/2020
18623	40,000	12	Jan 2012	LNM 07/20	2/18/2020
18626	40,000	16	Dec 2012	LNM 07/20	2/18/2020
18628	10,000	9	Oct 2012	LNM 07/20	2/18/2020
18640	207,840	27	Oct 2015	LNM 07/20	2/18/2020
18643	30,000	18	Dec 2009	LNM 07/20	2/18/2020
18645	100,000	28	May 2013	LNM 07/20	2/18/2020
18647	40,000	16	Mar 2009	LNM 07/20	2/18/2020
18649	40,000	68	Jun 2013	LNM 07/20	2/18/2020
18650	20,000	58	Jan 2017	LNM 07/20	2/18/2020
18651	40,000	45	Dec 2013	LNM 07/20	2/18/2020
18652 SC	40,000:80,000	36	CANCELLED	2017	2017
18653	20,000	12	Oct 2012	LNM 07/20	2/18/2020
18654	40,000	45	Jan 2012	LNM 07/20	2/18/2020
18655	10,000	59	Oct 2006	LNM 07/20	2/18/2020
18656	40,000	56	Aug 2010	LNM 07/20	2/18/2020
18657	10,000	19	Nov 2005	LNM 07/20	2/18/2020
18658	10,000	31	Sep 2007	LNM 07/20	2/18/2020
18659	10,000	16	Jan 2012	LNM 07/20	2/18/2020
18660	20,000	3	Sep 2005	LNM 07/20	2/18/2020
18661	40,000	30	Mar 2009	LNM 07/20	2/18/2020
18662	40,000	22	May 2009	LNM 07/20	2/18/2020
18663	20,000	6	Apr 2006	LNM 07/20	2/18/2020
18664	20,000	12	Aug 26, 2000	LNM 07/20	2/18/2020
18665	40,000	11	Aug 2004	LNM 07/20	2/18/2020
18666	10,000	1	Nov 24, 2001	LNM 07/20	2/18/2020
18667	20,000	12	Aug 26, 2000	LNM 07/20	2/18/2020
18680	210,668	32	May 2013	LNM 07/20	2/18/2020
18682	20,000	15	APR 2016	LNM 07/20	2/18/2020
18685	50,000	34	Sep 2012	LNM 07/20	2/18/2020
18686	40,000	13	Jul 17, 1999	LNM 07/20	2/18/2020
18700	216,116	22	Jul 2003	LNM 07/20	2/18/2020
United State Coast Pilot	Volume 7	51	2019 Edition with (72 COLREGS)	Last Corrected through 01MAR2020	
D11 CG Light List Weekly Updates	Volume 6	2020	Updated weekly	LNM 08/20 – 26FEB2020	

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D113 DSO-NS